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on onasmatic fumer con?

V 2. By means of the ~~large~~ ^{Saliva} which
~~inspiration~~ conveys them to the stomach
and bowels. 3 By means of the lungs in
inspiration. and

We have at length finished the history of the effects of all the sensible and insensible qualities of the Air upon the human body in producing Disease. ~~but~~ It remains ^{now} ~~now~~ that we inquire in what ~~manner~~ ^{manner} the insensible qualities of the Air, or in other words the foreign and extraneous matters which float in it are taken in the body so as to enable them to produce ~~envenomed~~ the phenomena that have been ascribed to them. It has been supposed they ~~enter~~ ^{enter & wait upon} the body in one or more of the following ways. 1 By means of ~~the lungs~~ ^{the skin}. 2 By means of the nerves which convey them directly to the brain through the medium of the nose. 3 By

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~~means of the saliva which conveys them~~
~~to the stomach and bowels &c. By means~~
~~of the Absorbents which terminate upon~~
~~the Skin. I admit the three ^{means} first ~~channels~~ ^{only}~~
~~which have been right the last mode of~~
~~the Absorption of by the Skin~~
~~morbid matters which produce disease only,~~
~~acting upon the system, ^{altogether,} and that not only~~
 because the existence of Absorbents upon
 the Skin has been ~~in a great degree dis-~~
 proved, but from the unsuccessful issue
 of many Attempts to to communicate the
 matter upon the Skin. The rejection of this
 opinion will remove an immense mass of
 error from medicine, and of ^{that} fear & prejudice
 from the minds of physicians ^{which have by dis-}
^{=posed} ~~posing~~ them ~~not~~ to pull off their gloves

~~I have Doubts of the miasmata or contagious thin
affair inducing disease ~~that~~ the very mixing with the
Saliva and descending with it into the stomach. The late
Dr Cowell of ...~~

Similar Affections of the Abdominal
Viscera occur in the violent dyspepsias of
the Small pox, and yet no one has supposed
its contagious to act primarily upon
the stomach. We see moreover similar
and even greater Comotions induced in
the System by certain Diseases of the mind, it
and these we are sure act primarily upon
the brain.

It is no Argument in favor of mias-
mata acting primarily upon the stomach,
that an emetic prevents the formation of
the fever induced by them. It acts not by
discharging any gas from the stomach
but by ~~its~~ ^{its} the stimulus, and ^{the} new actions
it excites in every part of the body. I as-
=mit

When they feel the pulse of ^a their patients, ^{in a year} or
 if they ventured to feel a few of its strokes with
 naked fingers, it will prevent their wasting
 inflaming them afterwards with frequent
 Abutions of with alkaline mixtures, or
 with soap and water. V³ by that the seeds of
 some diseases are taken into the body by the humors,
 but I believe virusmata of all kinds act
 chiefly ^{its} ~~primarily~~ upon the nerves & brain, and that
 when they enter the body thro' the avenues
 of the lungs, ~~and~~ ^{if they enter the body thro' the avenues} ~~and~~ ^{if they enter the body thro' the avenues}
~~in that way~~ ^{if they enter the body thro' the avenues} ~~and~~ ^{if they enter the body thro' the avenues}
 give vent to them as act upon the nervous
 system. From the nerves they are commu-
 nicated in ordinary cases of fever in the
 first instance to the blood vessels. They affect
 other parts of the body in proportion to their
 violence or malignity, ^{or according to predisposition.} That the nerves
 are first affected by virusmata I infer from
 pain being so generally one of the first

~~I have Doubts of the miasmata or contagious this
effect inducing disease ~~the~~ by mixing with the
Saliva and descending with it into the Stomach. The late
D^r Cowell of Trenton informed me that he once cut a piece
of thread throughly impregnated with variolous matter ~~to take~~
~~a dose of it into small spirits & gave it to a child in a dose of~~
phlegm, without inducing the small pox. From the~~

✓ It is no ~~big~~ argument in favor of the
seeds of fever being absorbed by the Skin, that
the Spleen and the Venereal disease are com-
-municated by contact. The former even
passes beyond the Skin, and the latter in-
-duces disease only when it comes in contact
with fores or parts covered with a thin pel-
-licle as the Glans penis, or internal surface
of the Urethra and Vagina. ~~It is~~

~~It is~~ ^{with variolous matter} ~~the~~ ^{effect of this experiment and}
~~the result of~~ ^{gas in the stomach and bowels} ~~the~~ ^{both of}
~~from the hæmorrhage~~ ^{Carbonic} ~~the~~ ^{upon the lungs & brain}

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= I object likewise to the miasmata and con-
-tagious inducing diseases by mixing with sali-
-va and descending with it into the stomach.

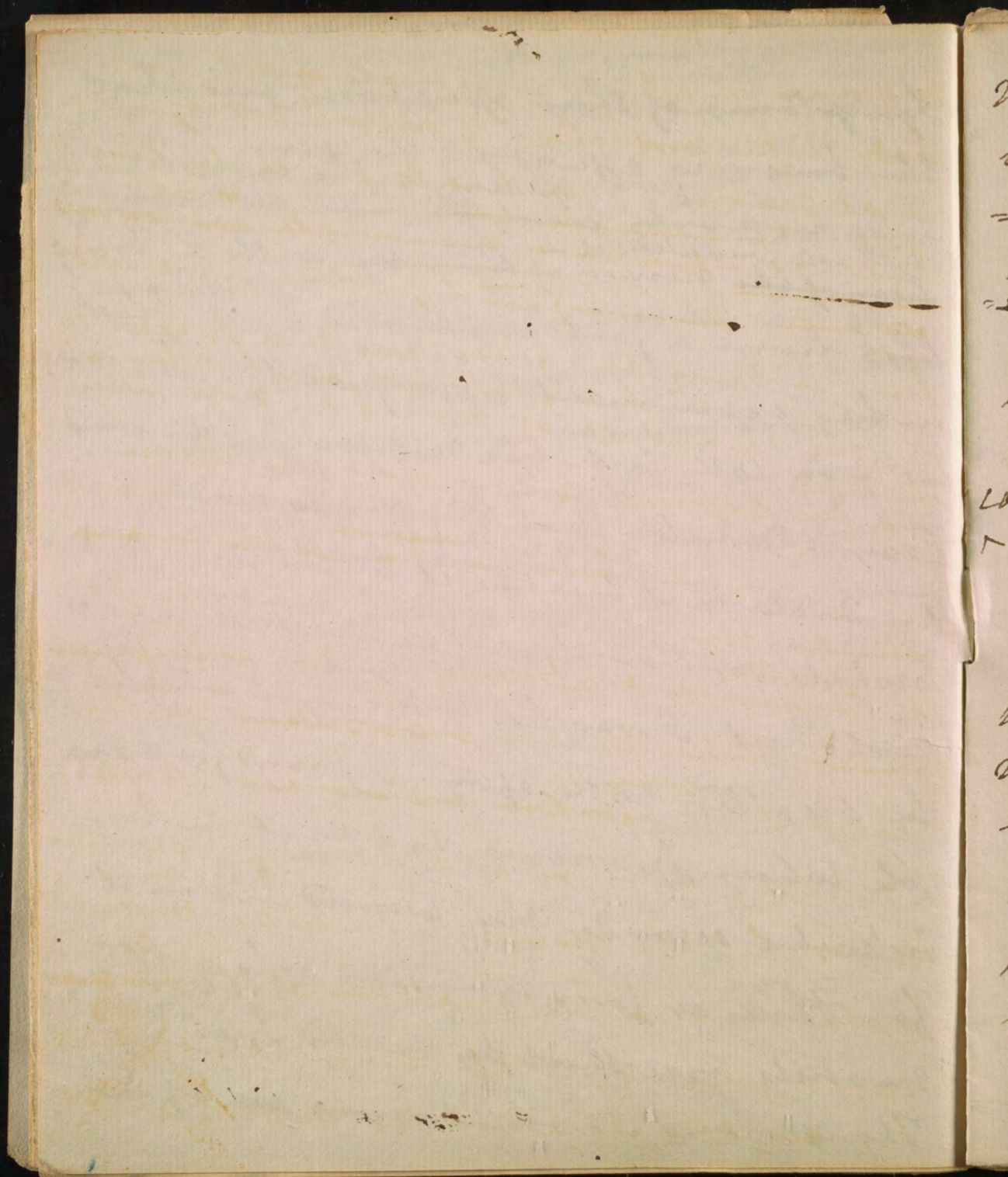
The ^{variolous matter} ~~small pox~~ when taken into the stomach
will not excite the small pox. This has been
proved by the late D^r Cowell at Trenton. I am
disposed to believe that the Koinomiasma in
the stomach, if conveyed there, would ^{be} rather
inoffensive, or perhaps counteract the
production of disease. Carbonic acid gas, so
deleterious in the lungs, we know is medicinal
in the stomach, and ~~spice~~ a few spoons full
of Ardent spirits when taken into the sto-
-mach prevent intoxication from their
small. The sickness, vomiting, Colic, and
even the morbid Affections of the liver ^{ch} which
occur in bilious or koinomiasmatic fevers
are all induced I believe by a primary
Affection of the system through the
medium of the ^{nose} ~~lungs~~ and the brain. ~~to~~

When they feel the pulse of their patients, or
 if they ventured to feel a fever of its strokes with
 naked fingers, it will prevent their washing
 inflaming them afterwards with frequent
 Abutions of with alkaline mixtures, or
 with Soap and water. ^{by that the seeds of}
 some diseases are taken into the body by the lungs,
 but I believe miasmata of all kinds act
 chiefly ^{its} ~~primarily~~ upon the nerves & brain, and that
 when they enter the body thro' the avenues
 of the lungs, ~~and Saliva~~ ^{if they admit their entrance} they ~~pass~~ are inoffen-
 sive until they act upon the nervous
 system. From the nerves they are commu-
 nicated in ordinary cases of fever in the
 first instance to the blood vessels. They affect
 other parts of the body in proportion to their
 violence or malignity, ^{or according to predisposition.} That the nerves
 are first affected by miasmata I infer from
 pain being so generally one of the first

affection of the brain. The same symptoms are induced by
the fever of the natural pox. We shall mention hereafter
many instances of similar effects from that cause,
particularly in treating upon the Diseases of the mind.
The ~~the~~ ~~Thrombosis~~ ~~here~~ I to admit the ~~sub~~ ~~primary~~
Action of any of the ~~the~~ ~~venoms~~ upon the stomach and
bowels it should be the ~~the~~ ~~venomous~~ ~~toxic~~ exhalations.
~~which killed by insects~~

V 2 From the functions of the brain
being so ^{much more} ~~greatly~~ impaired by fevers from
which ~~are~~ ~~from~~ ~~causes~~ ~~of~~ ~~the~~ ~~same~~ ~~kind~~ ~~as~~
miasmata of all kinds, than by fevers
from the accidents, or the sensible qualities
of the air. 29 Consumption & hectic fever from
all ^{this} ~~its~~ ~~causes~~ very rarely produce even a pain
in the head. -

Symptoms of this operation, and that
 the brain is affected at the same time I
 infer ~~not only~~ ^{from the vicinity of the nose to the brain} ~~from the intimate connection~~
^{the intimate connection of its} ~~from the nerves of the nose~~ with the brain;
^{3^{ly}} ~~but~~ from a fact mentioned by Dr Black
 in his experiments upon fixed air, or what
 we now call Carbonic Acid Gas. "I discovered
 (says the Doctor) that this air ^{to be} ~~is~~ deadly to all
 animals that breathe it by the mouth &
 nostrils together; but if the nostrils were
 kept shut, I was led to think it might
 be breathed with safety. I found for exam-
 -ple, when Sparrows died in it in ten
 or twelve seconds, they would live in it
 for three or four minutes when the
 nostrils were shut by melted Suet?"
 The opinions I am delivering ~~are~~ ^{the} of ~~the~~



manner in which miasmata of out upon the
body in the production of disease are of a prac-
tical nature. They lead to the early use of

~~Emetics~~ ^(if we admit that) ~~these miasmata are conveyed~~
~~by the~~ ^{into the} ~~stomach~~ ^{and} before they have had

time to bring on fever, and they suggest to
holding the breath for a short time, and
as the advantage of closing the nose. When

Constantly

we are exposed to morbid exhalations.

~~I have thus mentioned the diseases~~
~~which~~ the diseases which are produced by
the ^{sensible} ~~insensible~~ qualities of the air, ~~or by foreign~~
~~qualities which float it, & at times such as~~

heat and cold ^{and many of} ~~affection~~ ~~in individuals~~ attack in
a solitary form, or at the worst, in scouting

parties, but the diseases which are produced
by the insensible qualities of the ^{air,} ~~which~~

come forward in all the pomp of mighty
armies spreading distress, terror, and

~~The principal Epidemics I have said are~~
~~produced by 1st foreign or imitating matters~~
~~in the air. 2^d by bad provisions & 3rd by bad~~
~~water. Sometimes they all three concur in~~
~~the production of an epidemic - by one~~
~~or two of them acting as predisposing causes.~~

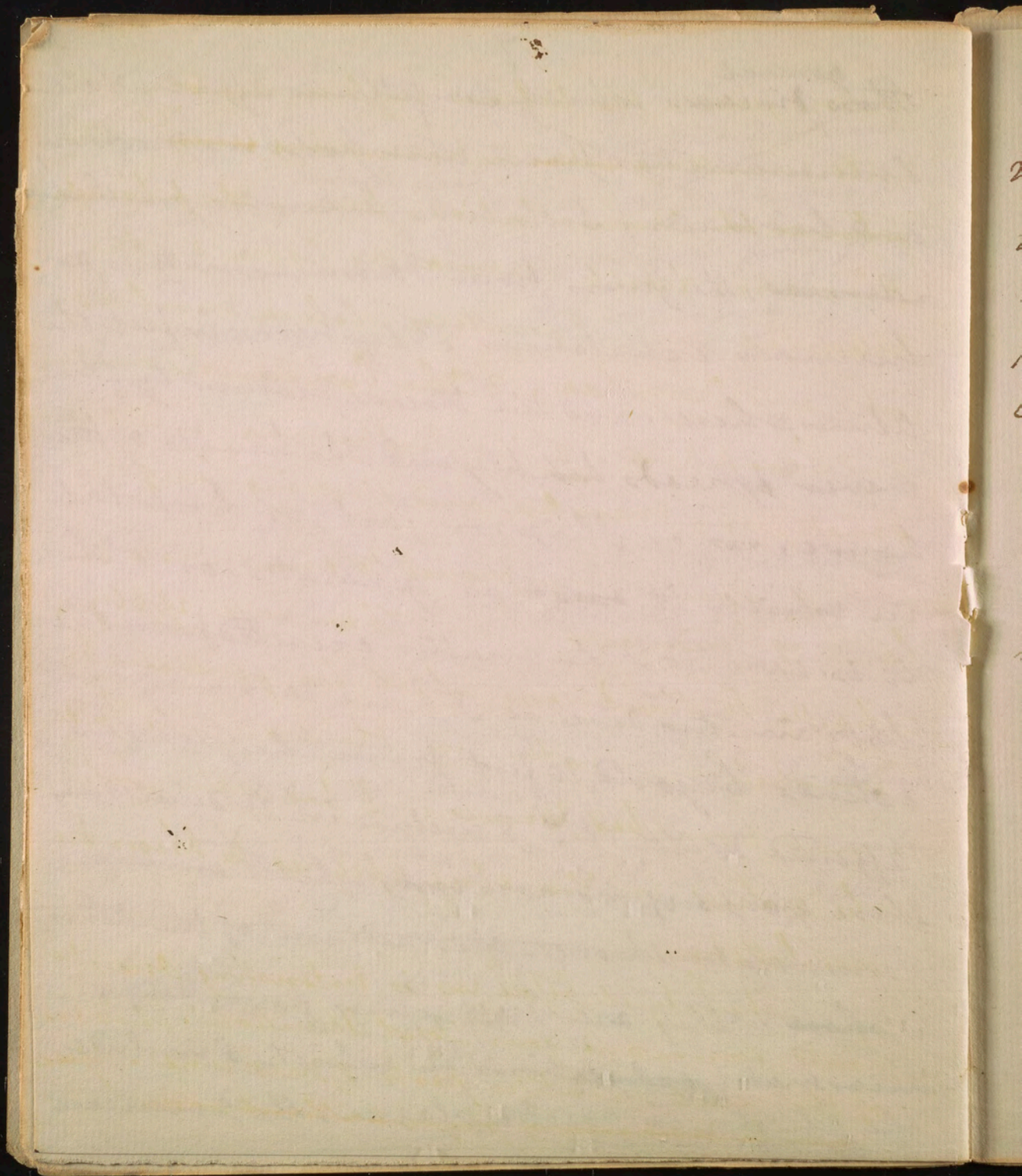
Sometimes death through whole commu-
 -nities, cities and nations. In this confed-
 -rated form they are called Epidemics. ^{Disrupting} Terri-
 -ble and destructive as they often are, they ~~are~~ ^{do}
 not exist, nor act by an inevitable decree
 of Heaven. ^{They may be foreseen,} They may be known; - they
 may be prevented; - they may be resisted, &
 they may be vanquished by the power of
 medicine. The ^{principles} ~~limits~~ of pathology ~~with~~ is
^{to deliver} ~~expressed at present by~~ a history of their
 laws; ^{only,} and of the phenomena which precede
 and accompany them. The means of
 preventing and curing them will be menti-
 -oned in our Therapeutics & the practice of
 Physic.

I exclude from Epidemics ^{all} ~~the laws~~
 those few which are induced by the sensible qua-
 -lities of the air, and ~~all~~ ^{all}

V are 1 produced by foreign matters in
the atmosphere - 2 by bad provisions &
3rd by bad water. To the diseases from foreign
or irritating matters in the air belong

VI This was evinced in many instances
During ^{our} ~~the~~ Revolutionary War, for while
two or three, and often more of our
Soldiers died of the hospital fever ^{every day} in the hospitals
~~at~~ in the house of employment in Philad.^a
in the College at Princeton & in the brethren's
house at Bethlehem in this State, the inha-
-bitants of all those places were perfectly
healthy. —

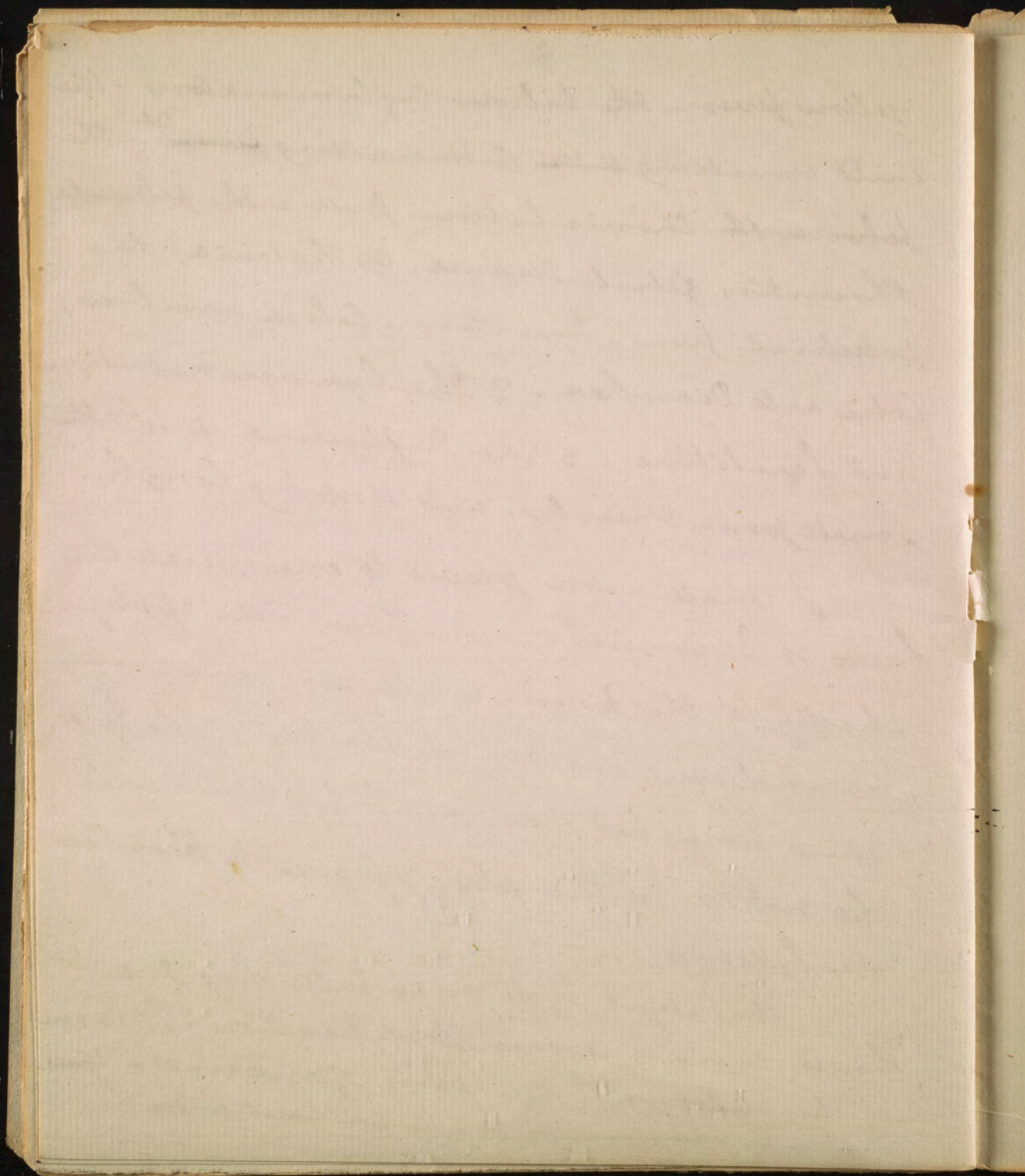
~~those~~ ^{general} diseases which sometimes affect whole communities from unwholesome provisions, and bad water. I exclude ^{from them} likewise from Epidemics, the fevers from Idiomiasmati, or human exhalations. They never infect the atmosphere, and the disease produced by them never spreads ~~but~~ beyond the limits of the house, ~~or~~ or ship, or jail, or hospital in which it ~~exists~~ is generated, or to which it is carried. The matter excreted from the body in this disease I have said never extends beyond 10 feet from the persons affected with it. I include in Epidemics ^{only} those groups of diseases ~~only~~ which are ~~communicated~~ ^{communicated} through the medium of the Atmosphere. They are ^{1st} ~~all~~ fevers from Idiomiasmati exhalations in which I include the African or Asiatic plague, the American

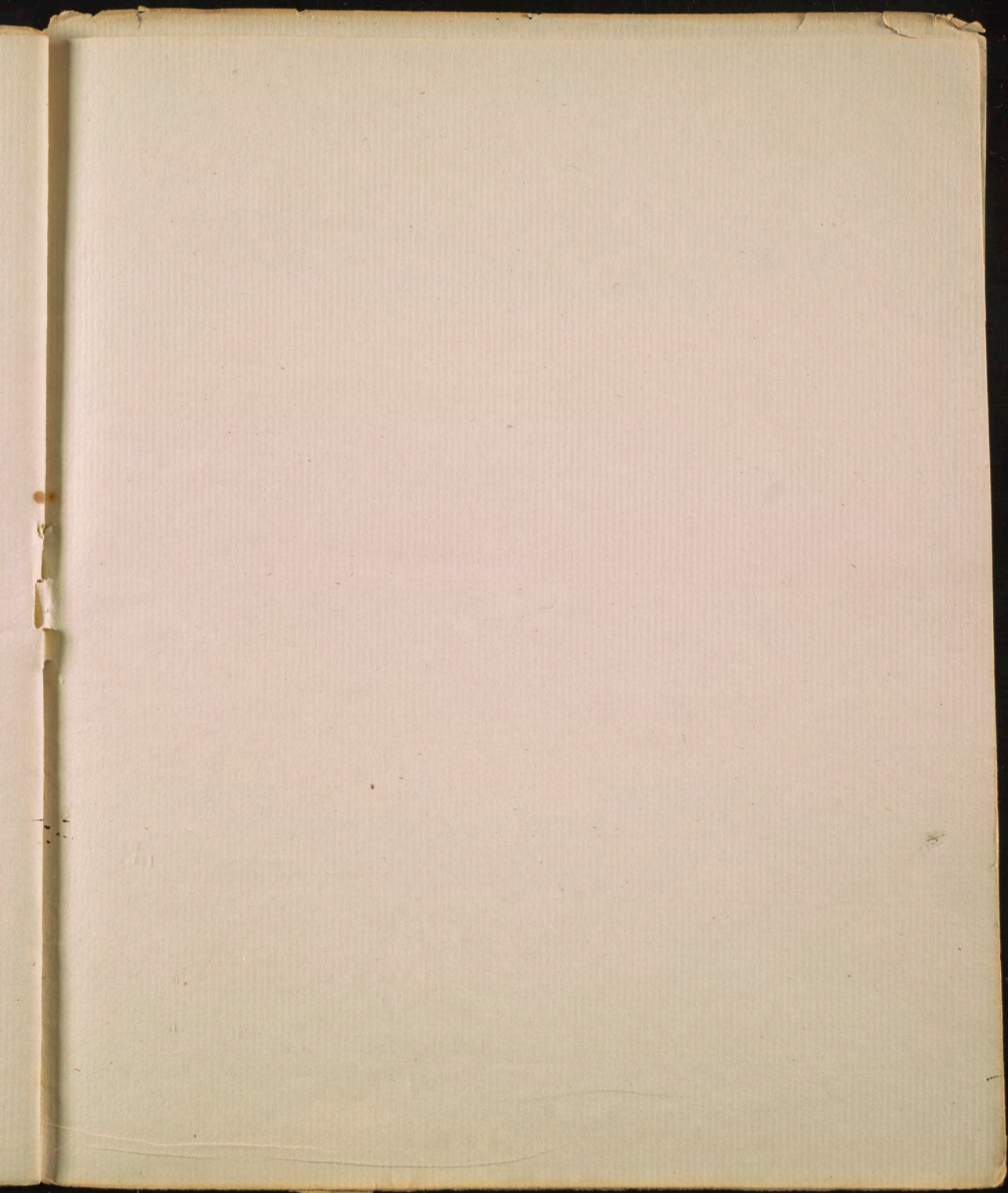


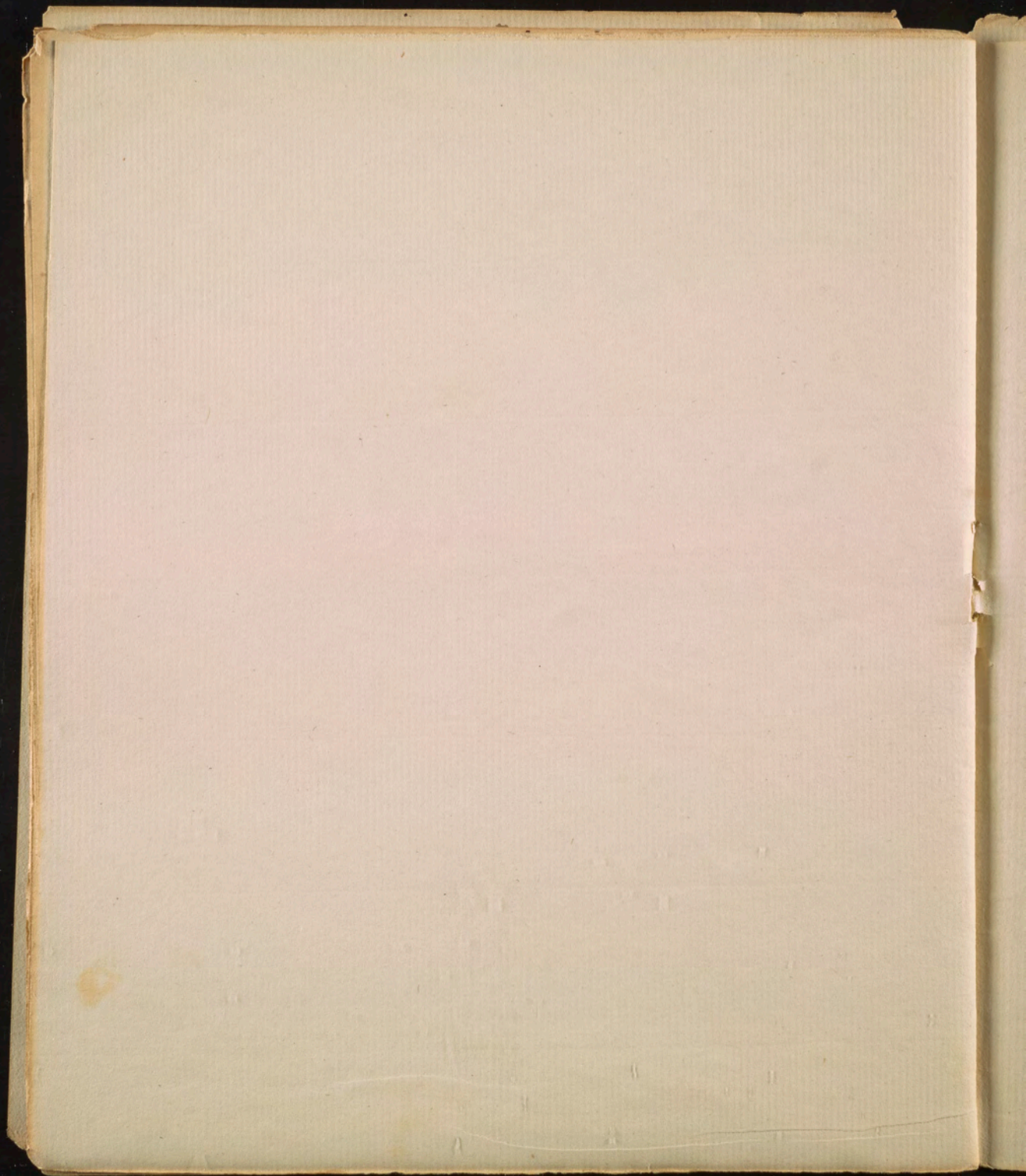
yellow fever - the bilious inflammatory - the
 mild remitting ~~the~~ [&] the intermitting fever - the
 febrile the chronic bilious fever - the febrile,
 Phrenitis, febrile mania, Ophthalmia, the
 petechial fever - Dysentery - Colera morbus,
 Colic and Diarrhea. 2 The Cynanche maligna
 and Scarlatina. 3 The Influenza, & by the
 Small pox - Measles, and Hooping Cough.

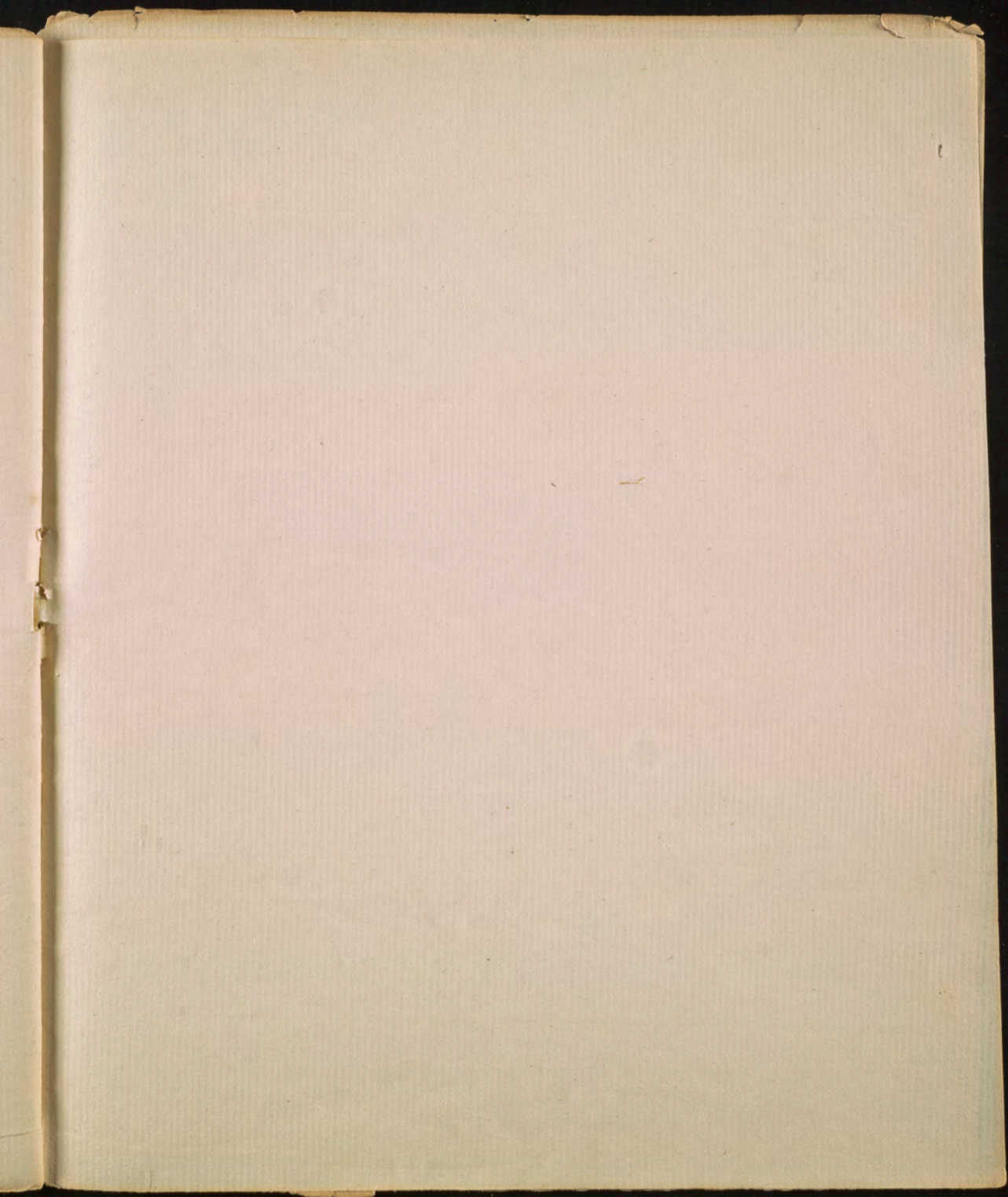
I shall now proceed to enumerate the
 laws of Epidemics. — These will apply
 chiefly to the Diseases which are generated by
 unwholesome matters in the air. The Epidemics
 from bad provisions & bad water will
 be noticed in the place assigned to them in
 our Syllabus. —

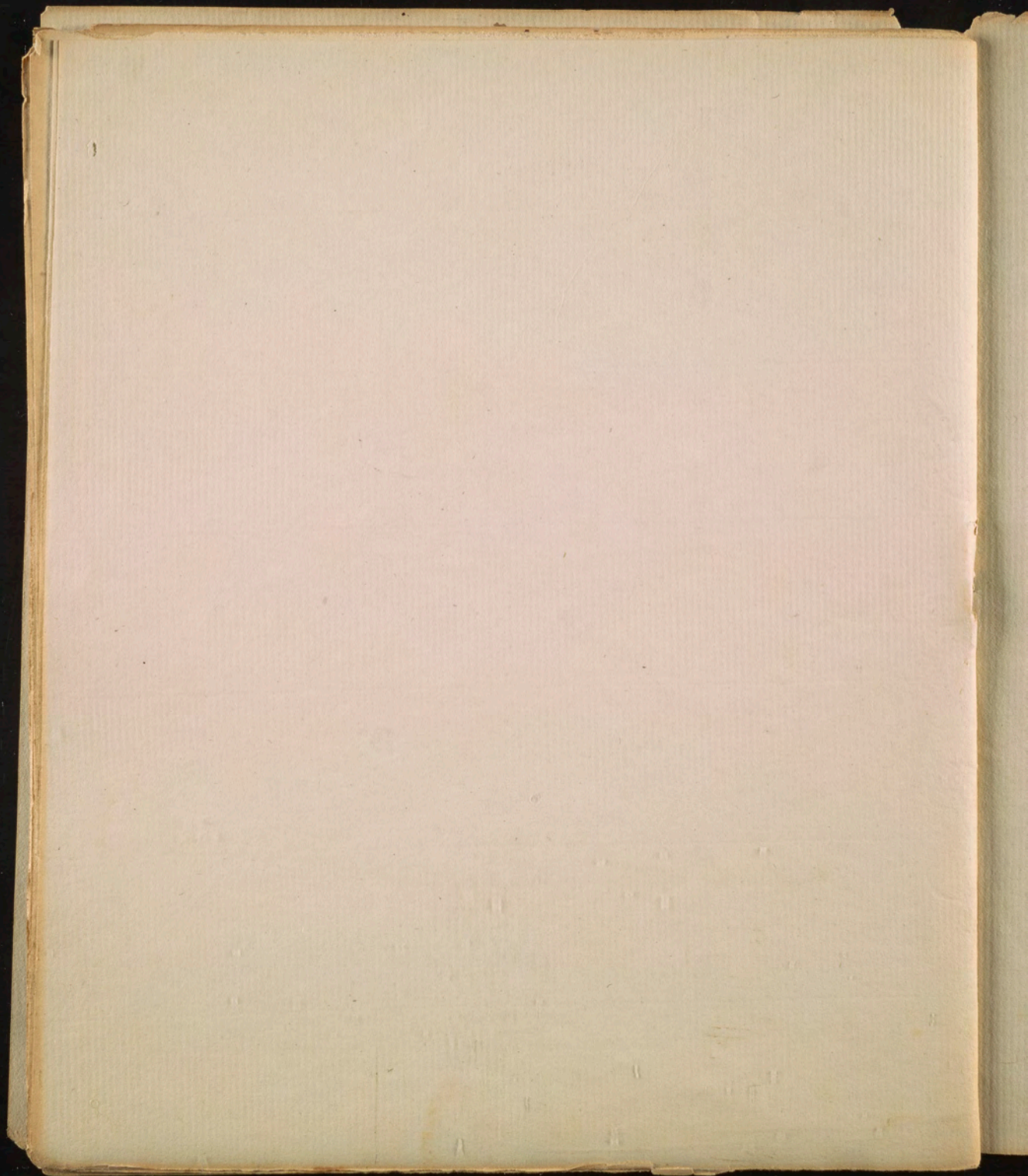
The subject before us is interesting one, &
 should command your closest Attention. It is one
 of the most scientific parts of medicine. You
 may be ~~practitioner of physic without~~ ^{without}

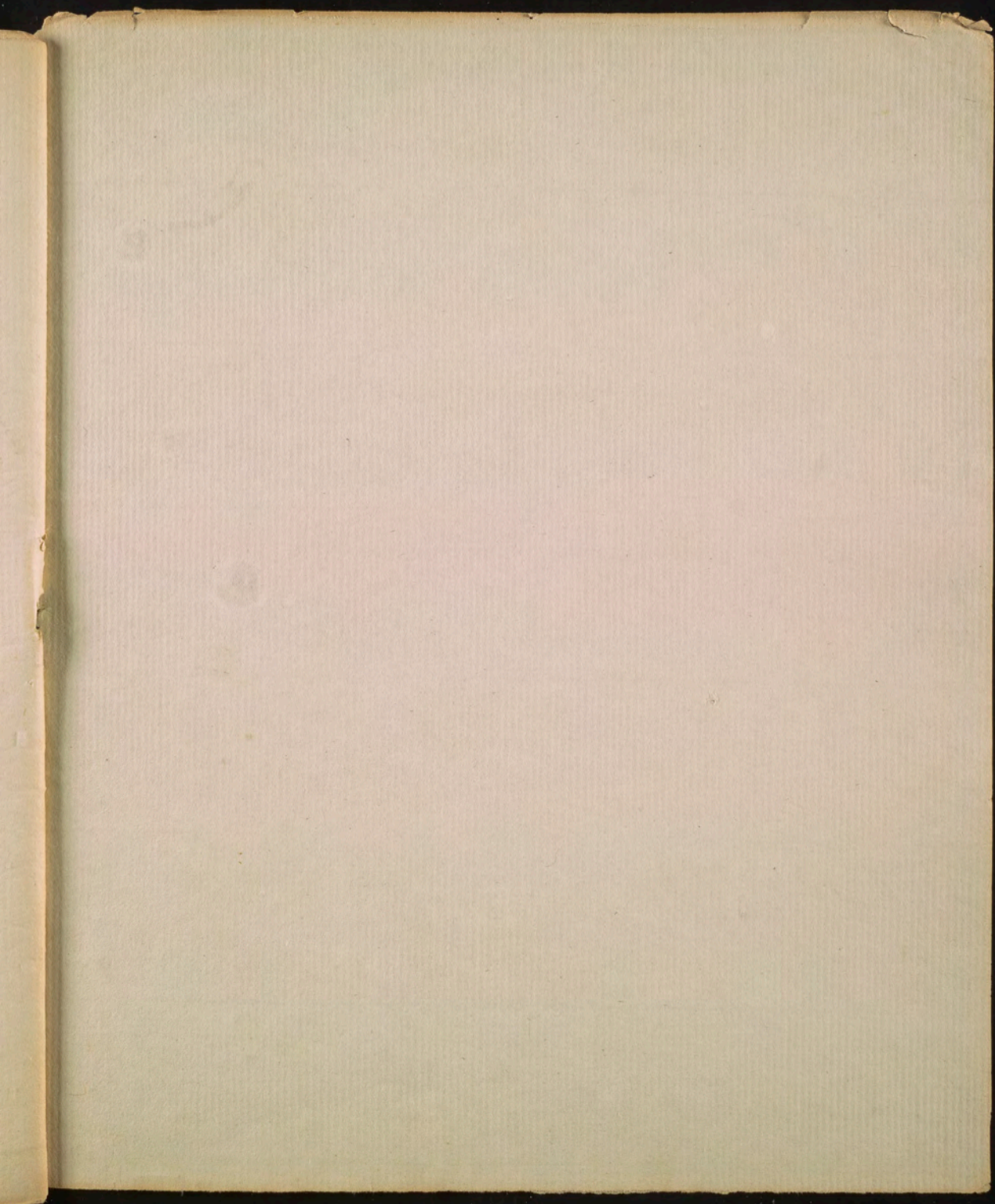












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